

FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: Not yet assigned		ATTY.'S DOCKET NO.: C1040.70012US00	
				FILING DATE: Herewith		CONFIRMATION NO.: Not yet assigned	
				APPLICANT: Heather Lynn DAVIS et al.			
				GROUP ART UNIT: 1632		EXAMINER: Not yet assigned Anne-Marie Falk, Ph.D.	
Sheet	1	of	4				

U.S. PATENT DOCUMENTS

Examiner's Initials†	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
	*A1	5,593,972		Weiner et al.	01/14/1997
	*A2	5,620,896		Herrmann et al.	04/15/1997
	*A3	5,643,578		Robinson et al.	07/01/1997
	*A4	5,714,316		Weiner et al.	02/03/1998
	*A5	5,736,524		Content et al.	04/07/1998
	*A6	5,814,617		Hoffman et al.	09/29/1998
	*A7	5,256,767		Salk et al.	10/26/1993
	*A8	5,256,553		Overell et al.	10/26/1993
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	*A11	5,565,293		Gluck et al.	10/15/1999
	*A12	5,972,346		Hauser et al.	10/26/1999
	*A13	5,981,274		Tyrrell et al.	11/09/1999
	*A14	5,565,203		Glück et al.	10/15/1996
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	*A16	5,679,647	B1	Carson et al.	10/21/1997
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		Office/Country	Number	Kind Code			
	*B1	WO	93/15207	A1		08/05/1993	
	*B2	WO	88/06185	A1		08/25/1988	
	*B3	WO	92/06212	A1		04/16/1992	
	*B4	CA	1 169 793			06/26/1984	
	*B5	WO	90/11092	A1		10/04/1990	
	*B6	WO	95/05853	A1		03/02/1995	

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Examiner's Initials†	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)	
	*C1	Agrawal, S., et al., "Pharmacokinetics of Antisense Oligonucleotides", <i>Clin Pharmacokinet.</i> , 7-16, (1995)		
	*C2	Cattaneo, R., et al., "Signals regulating hepatitis B surface antigen transcription", <i>Nature</i> , 305:336-338, (1983)		
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Sheet	2	of	4

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	*C4	Davis, H., et al., "Direct gene transfer into skeletal muscle in vivo: Factors affecting efficiency of transfer and stability of expression" <i>Human Gene Therapy</i> , 4: 151-159, (1993)	
	*C5	Davis, H., et al., "DNA-based immunization induces continuous secretion of hepatitis B surface antigen and high levels of circulating antibody" <i>Human Molecular Genetics</i> , 2:1847-1852, (1993)	
	*C6	Davis, H., et al., "DNA vaccine for hepatitis B: Evidence for immunogenicity in chimpanzees and comparison with other vaccines, <i>Proc Natl Acad Sci</i> , 93:7213-7218, (1996)	
	*C7	Fujieda, S., et al., "Effect of OK-432 on Cytotoxic Activity in Cancer patients without Tumor Burden", <i>Anticancer Research</i> , 12:1941-1946, (1992)	
	*C8	Fujisawa T et al, "Serial changes in titers of antibody to hepatitis B surface antigen after immunization of infants born to mothers with hepatitis B e antigen". <i>Pediatr. Gastroenterol Nutr</i> , 23:270-274, (1996)	
	*C9	Fuller, D., et al., "Induction of immunodeficiency virus-specific immune responses in rhesus monkeys following gene Gun-mediated DNA vaccination", <i>J. Med. Primates</i> , 25:236-241, (1996)	
	*C10	Fynan, E., et al., "DNA vaccines: Protective immunizations by parenteral, mucosal, and gene-gun inoculations", <i>Proc. Natl. Acad. Sci.</i> , 90:11478-11482, (1993)	
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	*C12	Jones, T., et al., "Synthetic oligodeoxynucleotides containing CpG motifs enhance immunogenicity of a peptide malaria vaccine in Aotus monkeys", <i>Vaccine</i> , 17:3065-3071, (1999)	
	*C13	Karlin, S., et al., "Why is CpG Suppressed in the Genomes of Virtually All Small Eukaryotic Viruses but Not in Those of large Eukaryotic Viruses?", <i>Journal of Virology</i> , 2889-2897, (1994)	
	*C14	Kataoka, T., et al., "Antitumor Activity of Synthetic Oligonucleotides with Sequences from cDNA Encoding Proteins of Mycobacterium vobis BCG", <i>Jpn. J. Cancer Res.</i> , 83:244-247, (1992)	
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	*C16	Lee, PI., et al., "Long-term efficacy of recombinant hepatitis B vaccine and risk of natural infection in infants born to mothers with hepatitis B e antigen." <i>J. Pediatr</i> , 126: 716-721, (1995)	
	*C17	Li, Z., et al., "Desmin sequence elements regulating skeletal muscle-specific expression in transgenic mice", <i>Development</i> , 117:947-959, (1993)	
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	*C19	LUTYNSKI R. and Juszczak R, "The level of anti-HBs in blood serum of persons selected from a group of Krakow inhabitants" <i>Folia Med. Cracov.</i> , 38: 63-68, (1997)	
	*C20	Mcintyre, K., et al., "A Sense Phosphorothioate Oligonucleotide Directed to the Initiation Codon of Transcription Factor NF-kB p65 Causes Sequence-Specific Immune Stimulation", <i>Antisense&Nucleic Acid Drug Development</i> , 3:309-322, (1993)	
	*C21	MANZEL, L., et al., "Lack of Immune Stimulation by Immobilized CpG-Oligodeoxynucleotide", <i>Antisense&Nucleic Acid Drug Development</i> , 9:459-464, (1999)	

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Sheet	3	of	4

OTHER ART —NON PATENT LITERATURE DOCUMENTS (continued)

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	*C22	MOJCIK, C., et al., "Administration of a Phosphorothioate Oligonucleotide Antisense Murine Endogenous Retroviral MCF env Causes Immune Effects in Vivo in a Sequence-Specific Manner", <i>Clinical Immunology and ImmunoPathology</i> , 67:2:130-136, (1993)	
	*C23	PISETSKY, D., et al., "Immunologic Consequences of Nucleic Acid Therapy", <i>Antisense&Nucleic Acid Drug Development</i> , 5:219-225, (1995)	
	*C24	PRINCE, A., et al., "Successful nucleic acid based immunization of newborn chimpanzees against hepatitis B virus", <i>Vaccine</i> , 15:8:916-919, (1997)	
	*C25	RAZ, E., et al., "Intradermal gene immunization: The possible role of DNA uptake in the induction of cellular immunity to viruses", <i>Proc. Natl. Acad. Sci.</i> , 91:9515-9523, (1994)	
	*C26	ROBINSON, H., "Nucleic acid vaccines: an overview", <i>Vaccine</i> , 15:8:785-787, (1997)	
	*C27	SANDS, H., et al., "Biodistribution and Metabolism of Internally 3H-Labeled Oligonucleotides. I. Comparison of a Phosphodiester and a Phosphorothioate", <i>The American Society for Pharmacology</i> , 45:932-943, (1994)	
	*C28	STEIN, C., et al., "Antisense Oligonucleotides as Therapeutic Agents - Is the bullet Really Magical", <i>Science</i> , 261:1004-1012, (1993)	
	*C29	THOMSEN, D., et al., "Promoter-regulatory region of the major immediate early gene of human cytomegalovirus", <i>Proc. Natl. Acad. Sci.</i> , 81:659-663, (1984)	
	*C30	TOKUNAGA, T., et al., "Antitumor Activity of Deoxyribonucleic Acid Fraction From Mycobacterium bovis BCG. I. Isolation, Physicochemical Characterization, and Antitumor Activity", <i>JNCI</i> , 72:955-962, (1984)	
	*C31	ULMER, J., et al., "Heterologous protection Against Influenza by Injection of DNA Encoding a Viral Protein", <i>Science</i> , 259:1745-1749, (1993)	
	*C32	VALENZUELA, P., et al., "Synthesis and assembly of hepatitis B virus surface antigen particles in yeast", <i>Nature</i> , 298:347-350, (1982)	
	*C33	WANG, B., et al., "Gene inoculation generates immune responses against human immunodeficiency virus type 1", <i>Proc Natl. Acad. Sci.</i> , 90:4156-4160, (1993)	
	*C34	YASWEN, P., et al., "Effects of Sequences of Thioated Oligonucleotides on cultured Human Mammary Epithelial Cells", <i>Antisense Research and Development</i> , 3:67-77, (1993)	
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	*C37	SHIH et al.	
	*C38	HAYNES et al.	
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	*C40	BOHM et al.	
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	*C43	HAYES, J.R. et al., Particle-mediated nucleic acid immunization, <i>Journal of Biotechnology</i> 44, 1996, pages 37-42	
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	*C45	LEBORGNE, S. et al., <i>In Vivo</i> Induction of Specific Cytotoxic T Lymphocytes in Mice and Rhesus Macaques Immunized with DNA (January 1998) <i>Virology</i> 240(2):	
	*C46	Vector Encoding an HIV Epitope Fused with Hepatitis B Surface Antigen, <i>Virology</i> 240, 304-315, 1998, Article No. VY978942	
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	*C49	TANG, D. et al., "Genetic immunization is a simple method for eliciting an immune response", <i>Nature</i> , March 12, 1992, Pages 152-154, Vol. 356	
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EXAMINER	/Anne Marie Falk/	DATE CONSIDERED	06/22/2010
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†EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. 09/146,072, filed September 2, 1998 and now pending, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

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